

Fig. 1A (prior art)

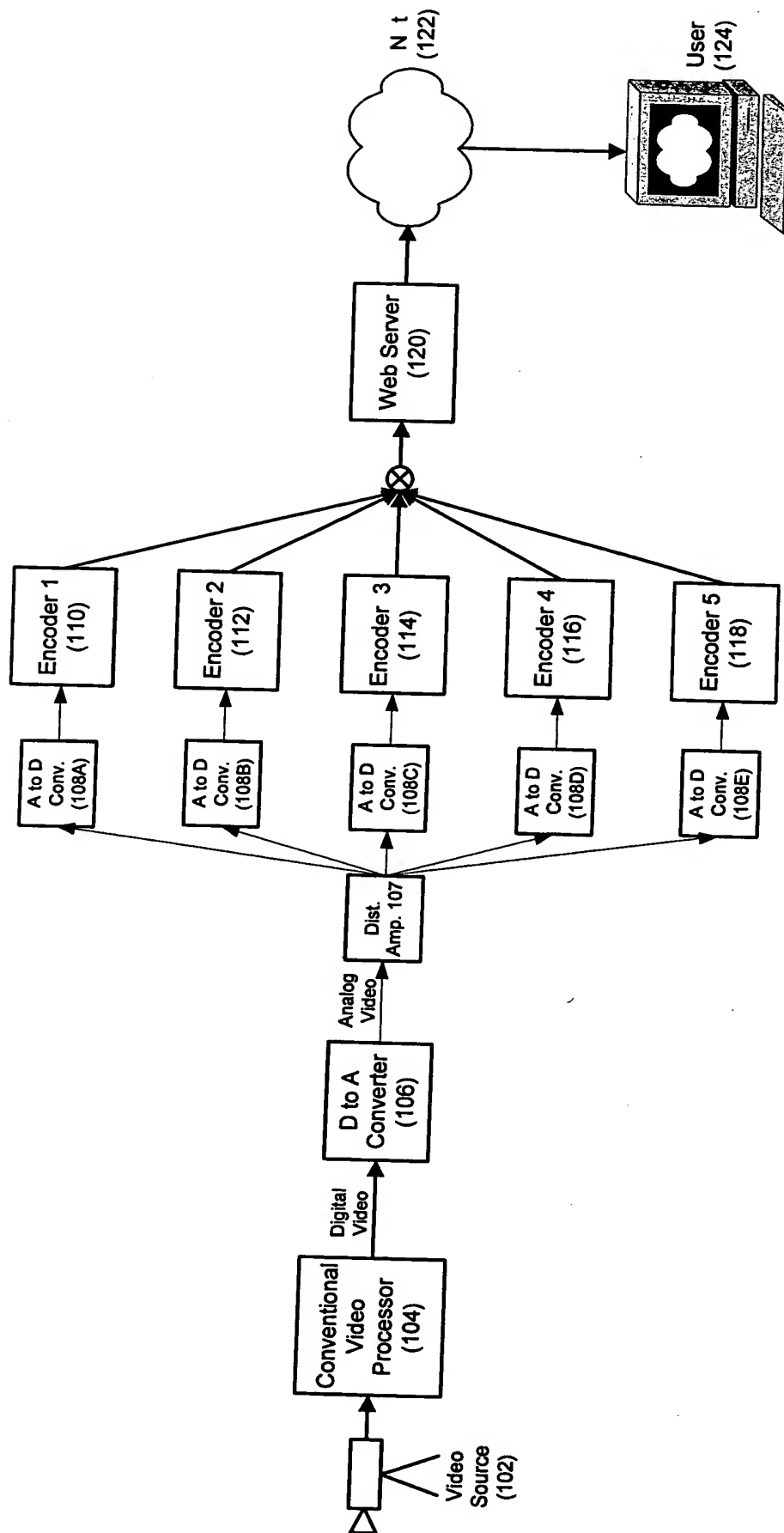


Fig. 1B (prior art)

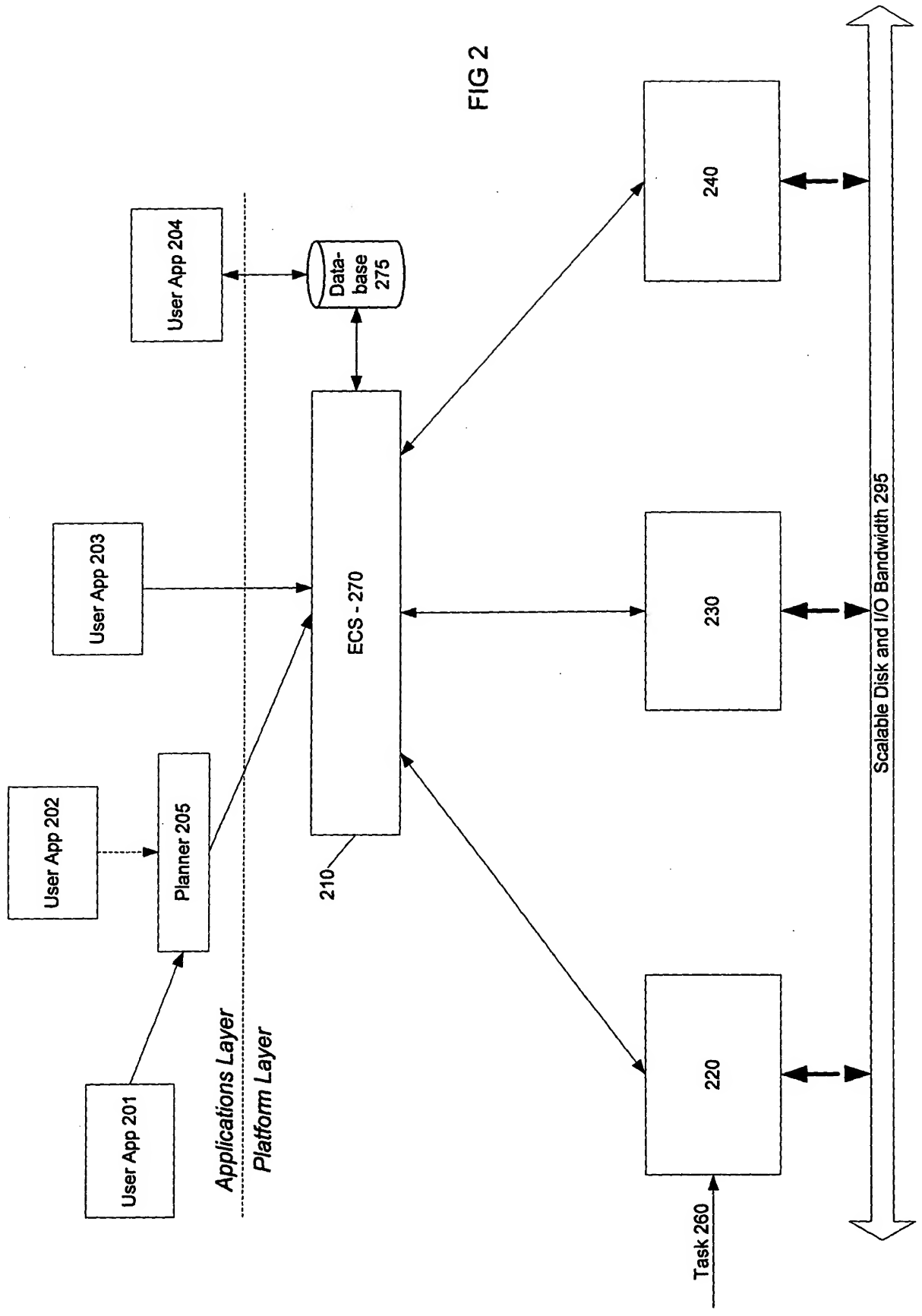


FIG 2

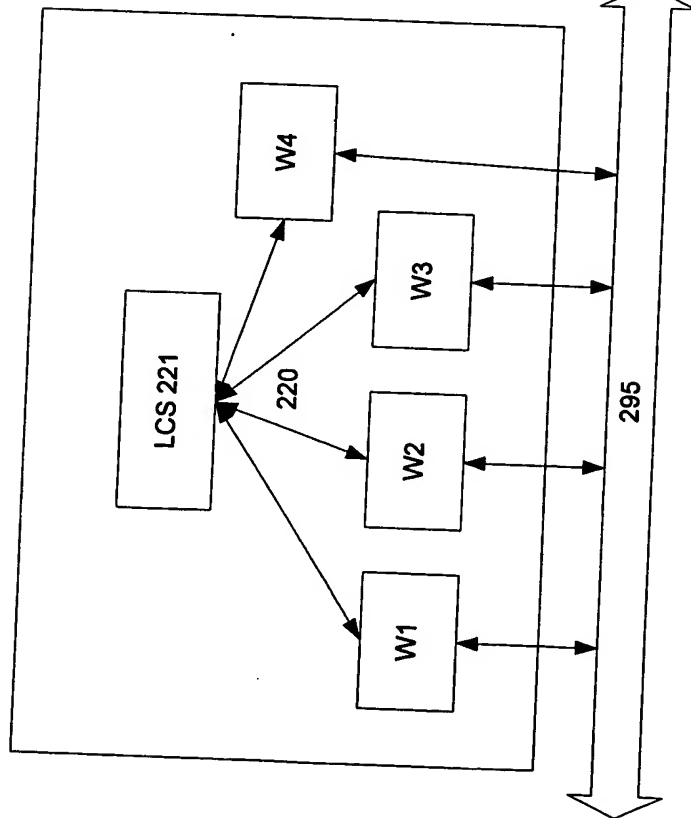


Fig 3A

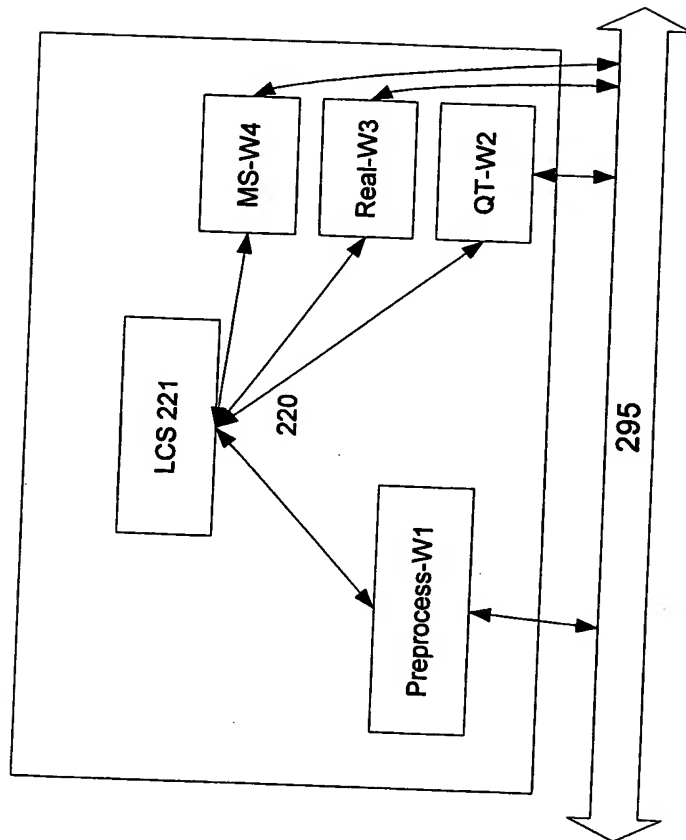


Fig 3B

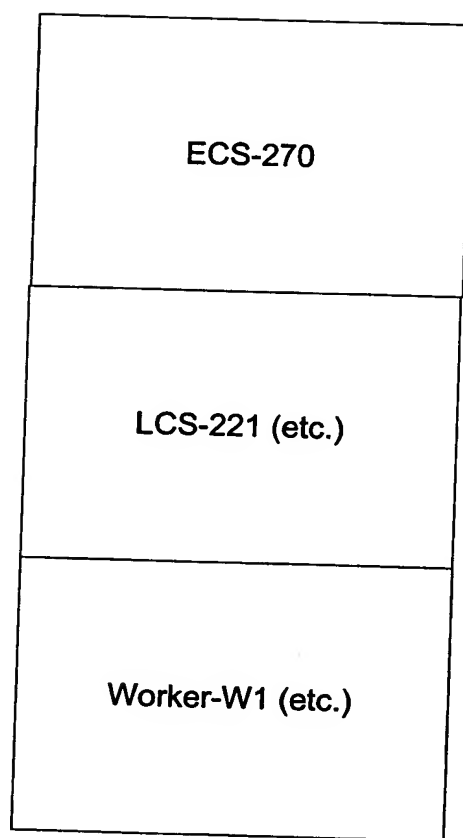


Fig. 4

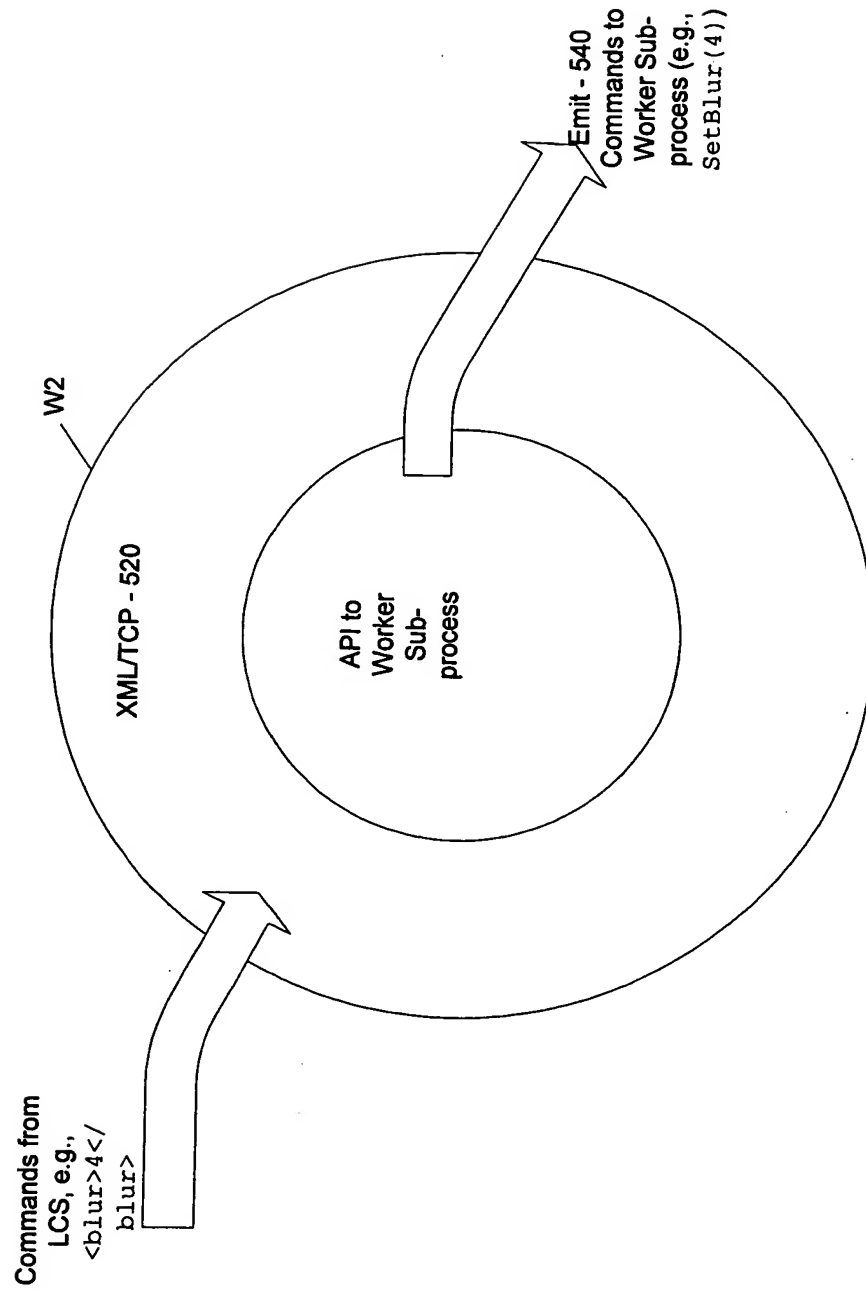


Fig. 5

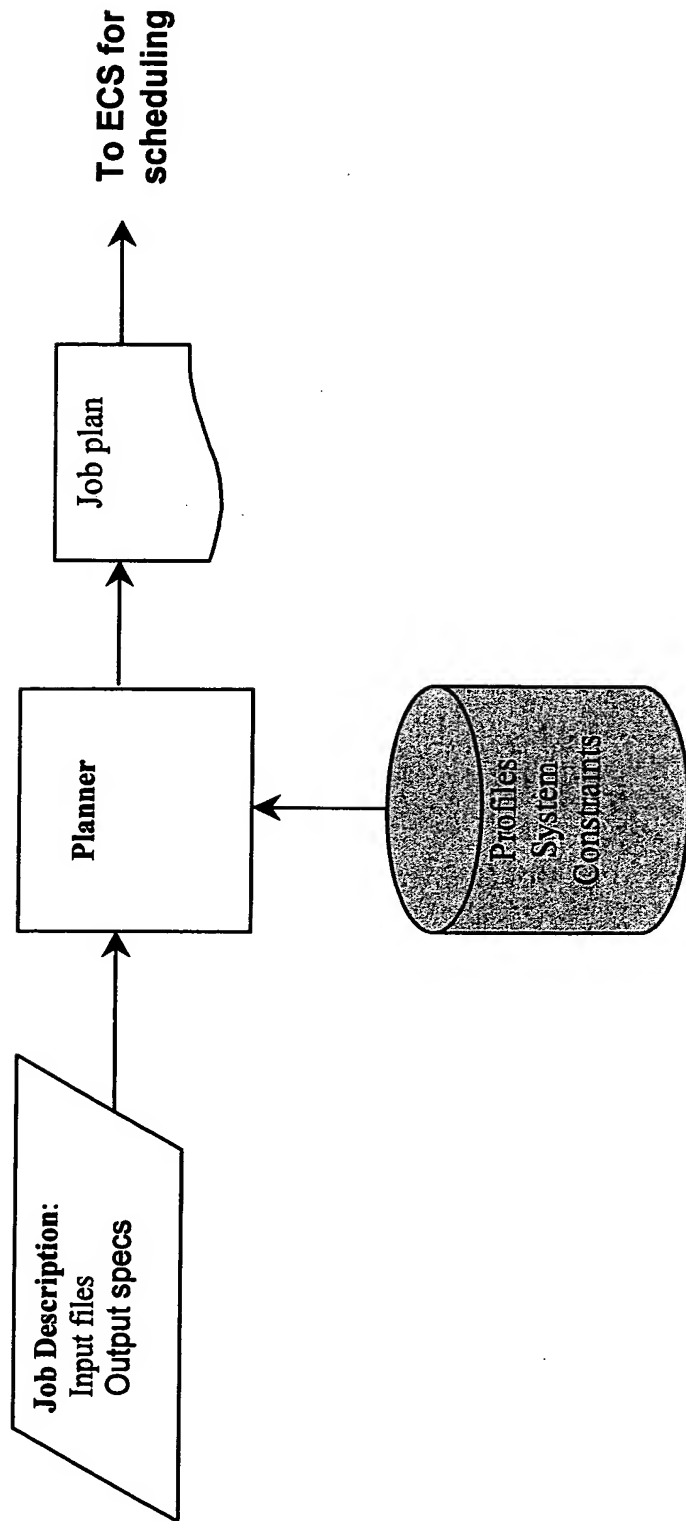


Fig. 6

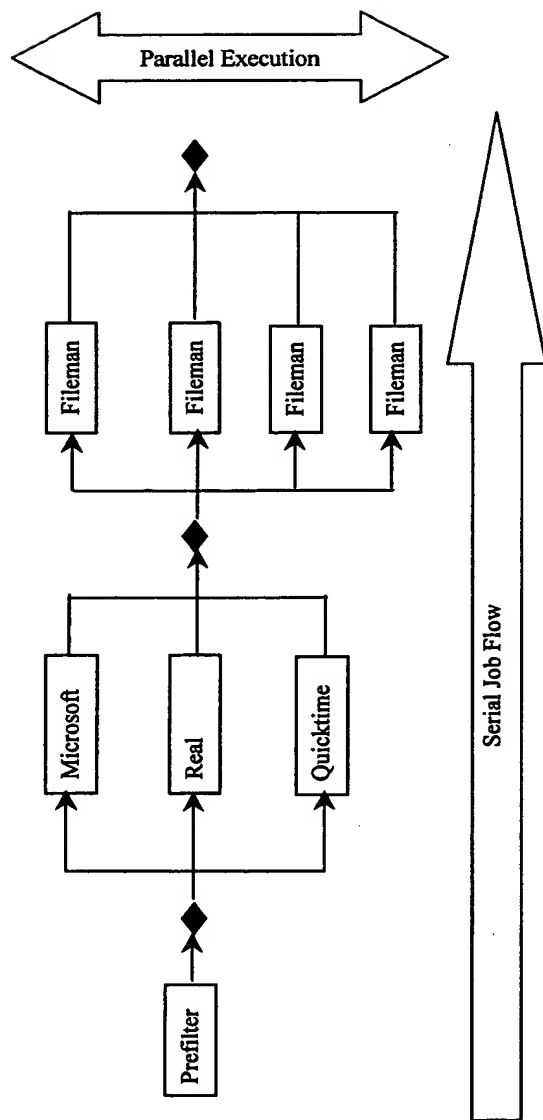


Fig. 7A

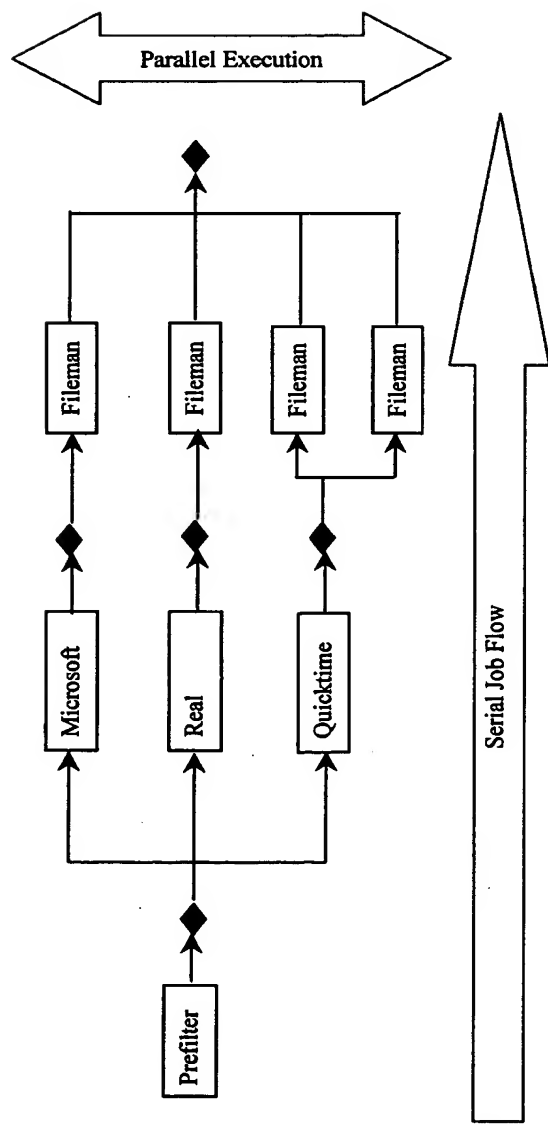


Fig. 7B

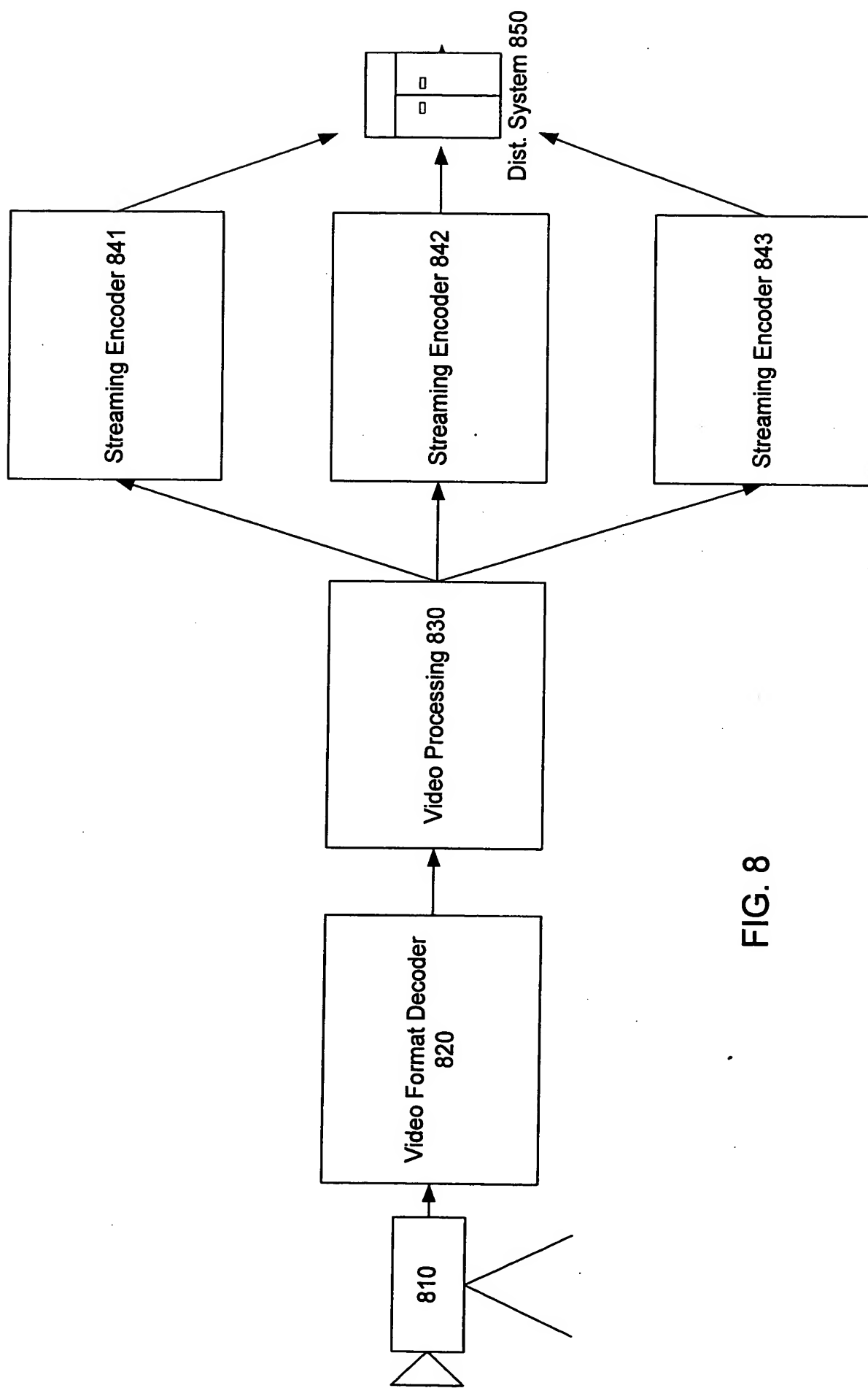


FIG. 8

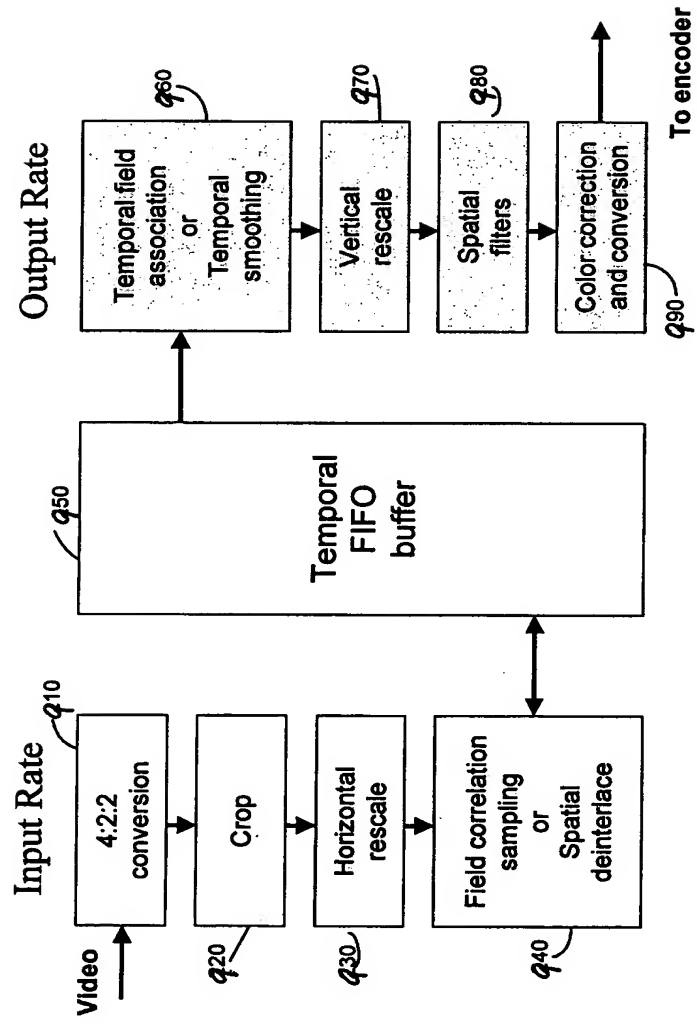


FIG. 9

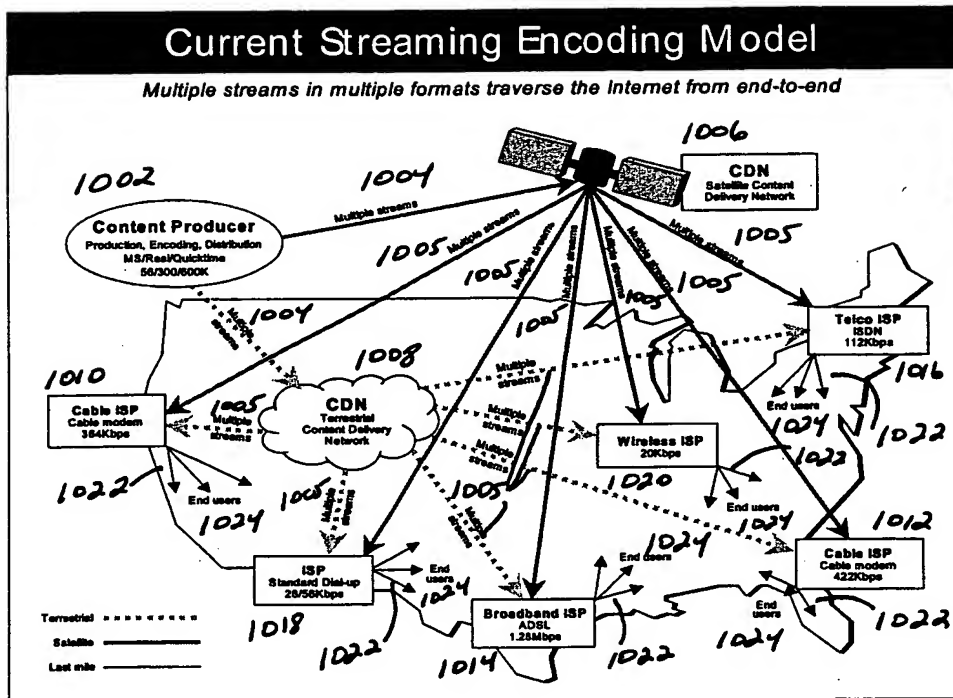


Figure 10 (prior art)

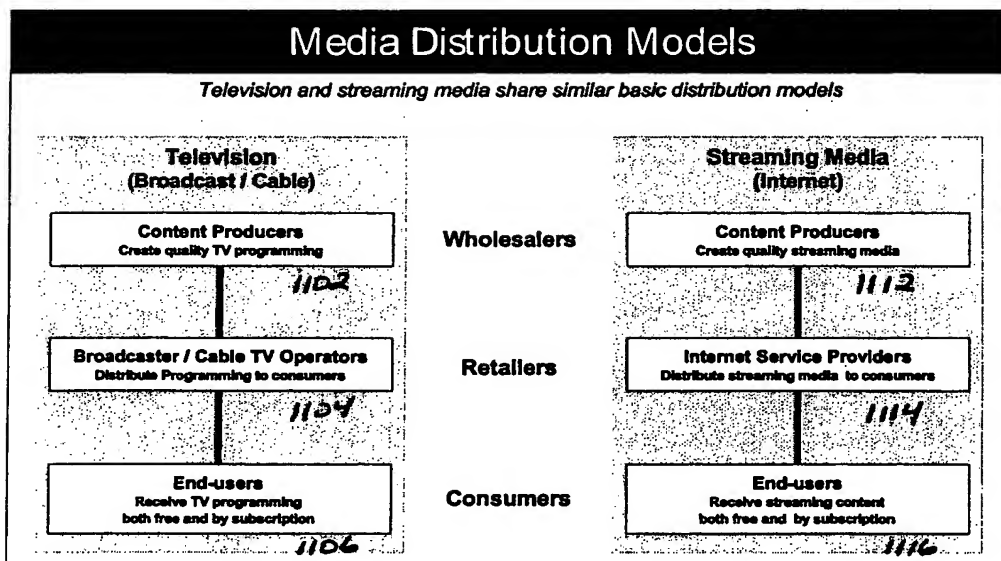


Fig. 11 (prior art)

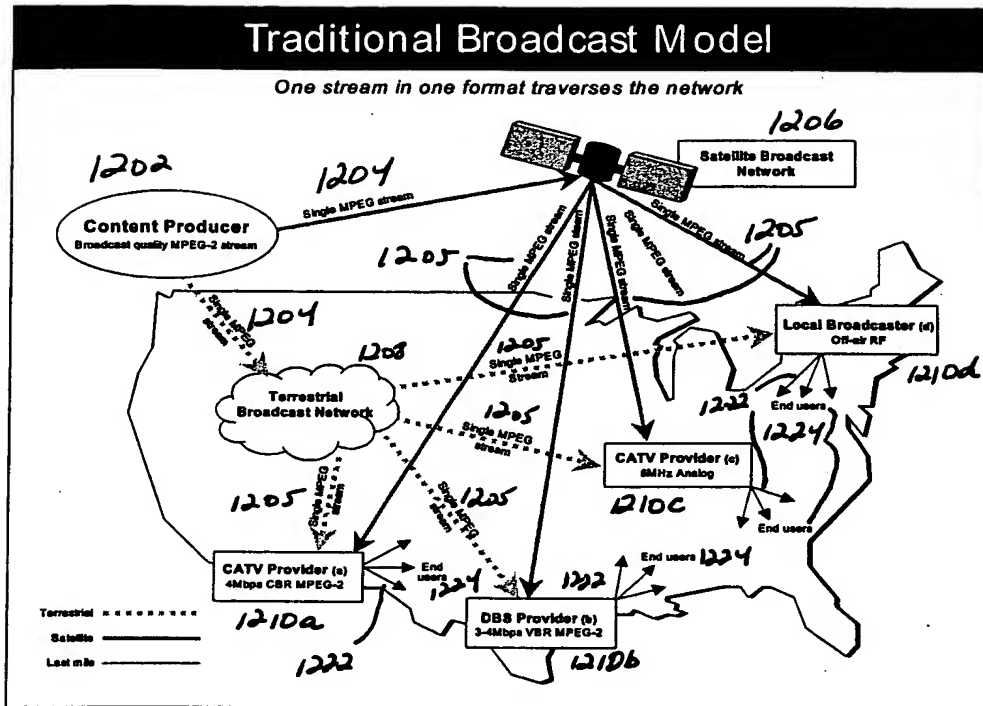


Fig. 12 (prior art)

Media Economic Models

Cost and revenue distribution differs significantly between television and streaming media

Television (Broadcast / Cable)			Streaming Media (Internet)		
Costs	Revenue	Stakeholder	Stakeholder	Revenue	Costs
Yes Produce programming & encode single MPEG stream -Pay for transport	Yes Sell programming to Broadcast / Cable	1302 Content Producers Create quality TV programming	Wholesalers	1312 Content Producers Create quality streaming media	No All revenue is transferred to transport costs
Yes Infrastructure	Yes Sell bandwidth to Content Producers	1304 Satellite & Terrestrial Delivery Distribute Programming to Broadcast / Cable	Transport	1314 Satellite & Terrestrial CDN's Distribute streaming media to ISP's	Restricted Sell bandwidth to Content Producers
Yes Pay wholesale price for programming	Yes Subscription revenue (cable/DBS) Ad revenue (local and/or national (AA))	1306 Broadcaster / Cable TV / DBS Operators Distribute Programming to consumers	Retailers	1316 Internet Service Providers Distribute streaming media to consumers	No Access revenue not directly related to streaming media
Yes Pay subscription fees for programming (cable/DBS)	N/A	1308 End-users Receive TV programming both free and subscription	Consumers	1318 End-users Receive streaming content both free and subscription	N/A
Yes Pay for ad time	Indirect	1310 Advertisers (local & national) Purchase ad time to run during network programming	Advertisers	1320 Advertisers Minimal advertising is not connected to streaming / no localization	No Advertising not directly linked to streaming media

Fig. 13 (prior art)

Agility Edge Architecture

Edge encoders can be managed locally or centrally

Agility Edge encoding platform

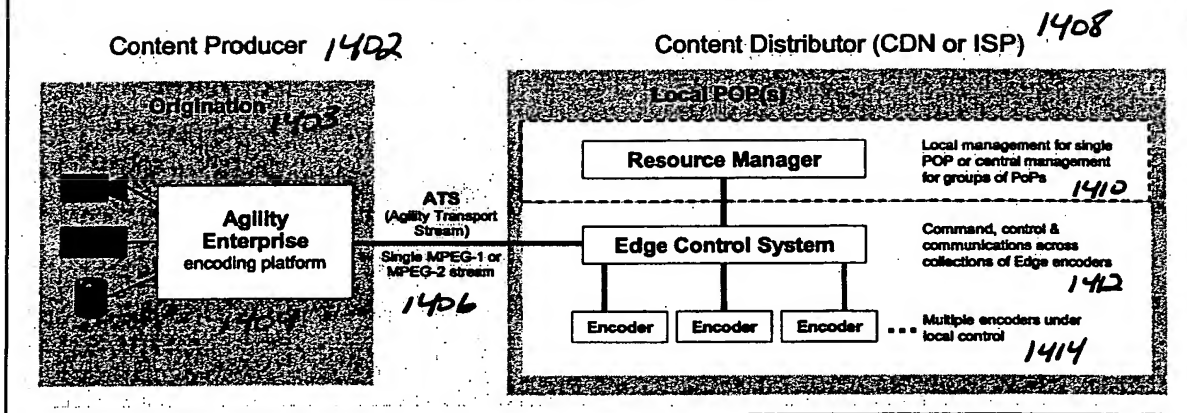


Fig. 14

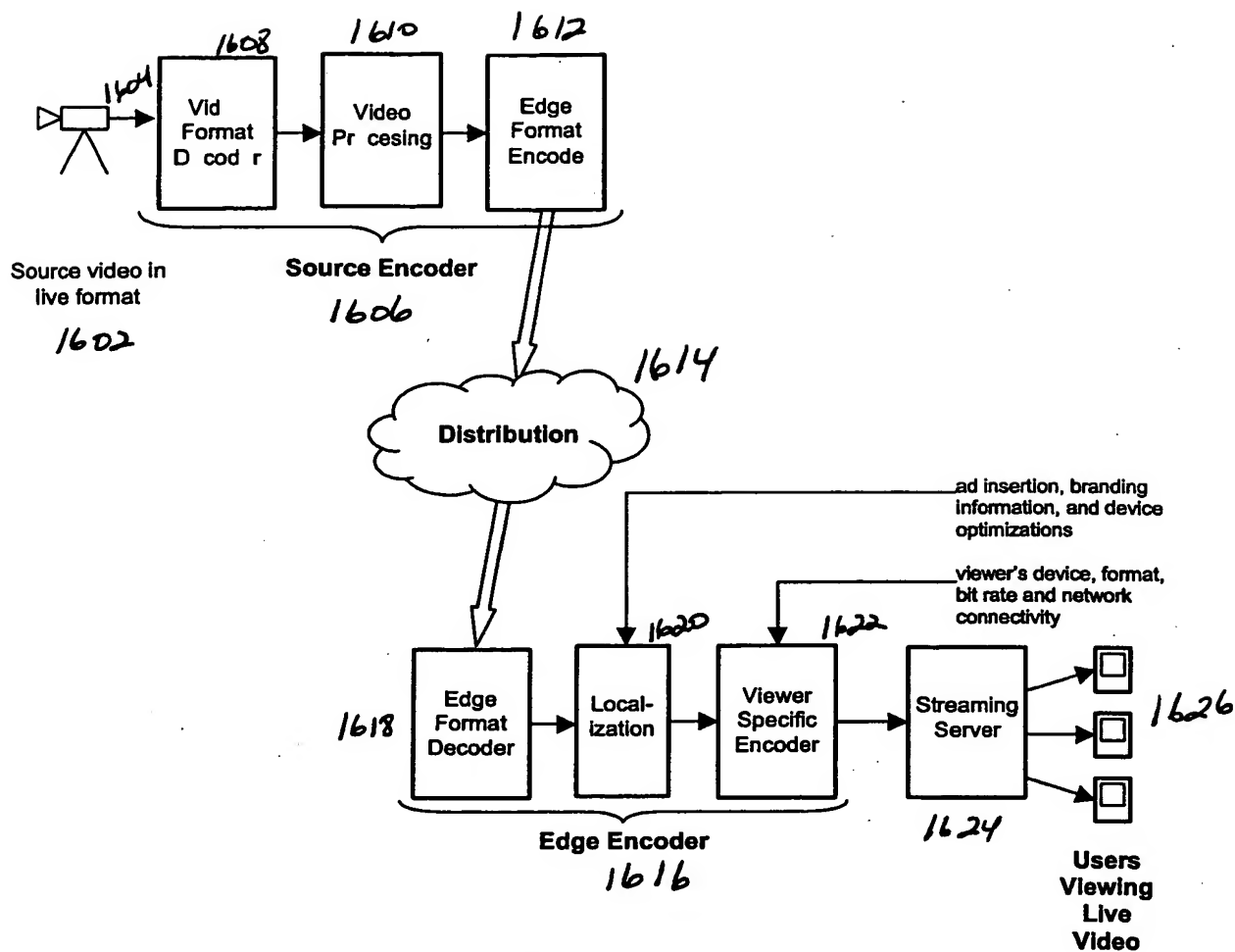


Figure 14 Edge Encoding

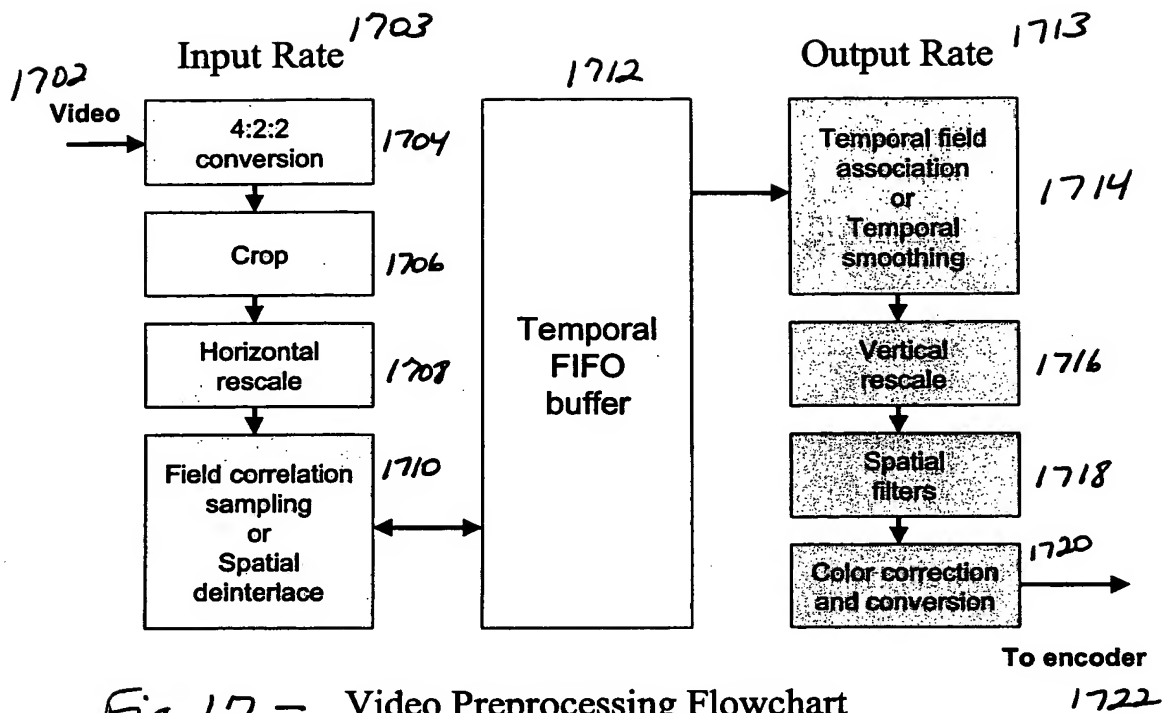


Fig. 17 - Video Preprocessing Flowchart

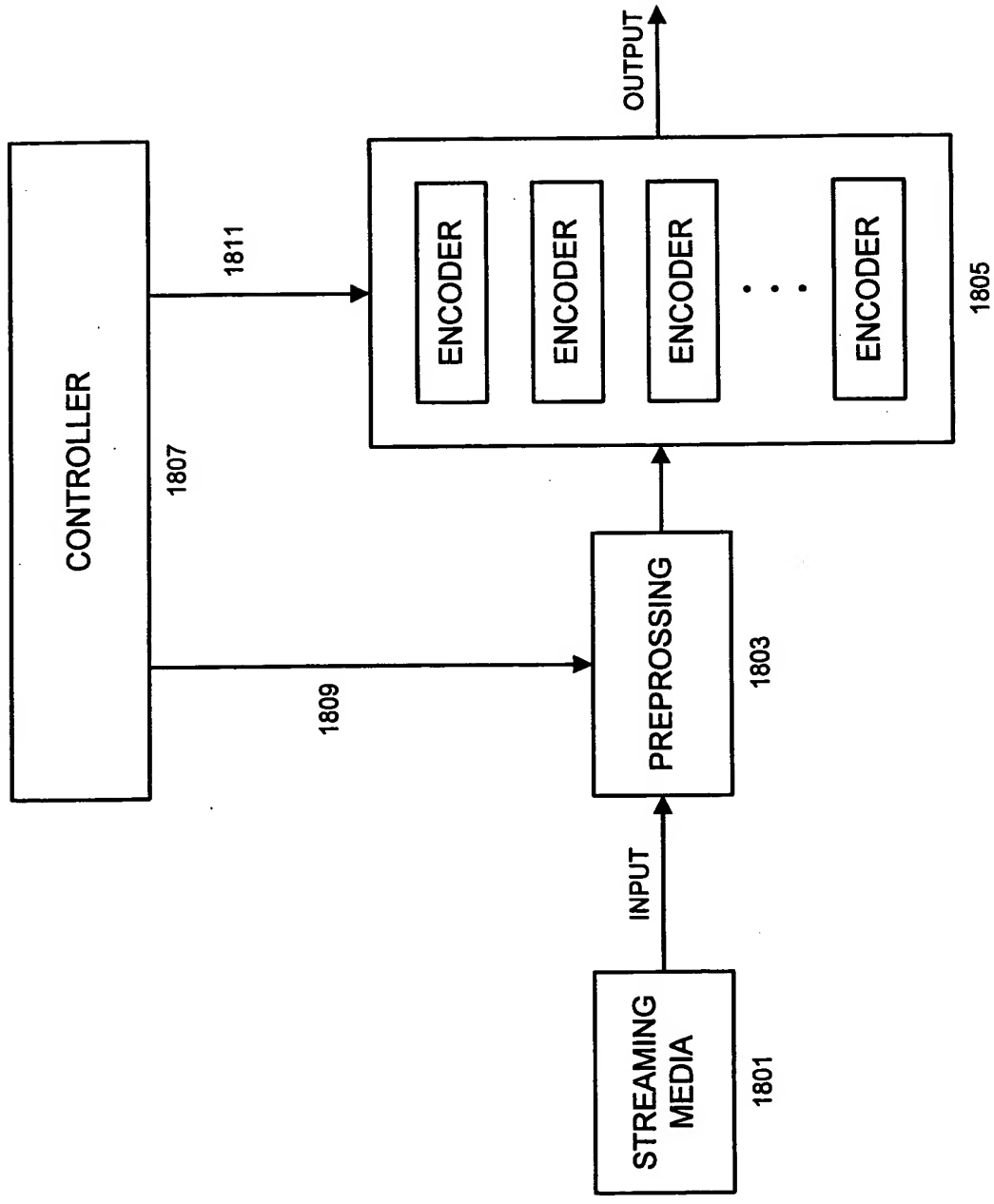


Figure 18